

* Case Study :

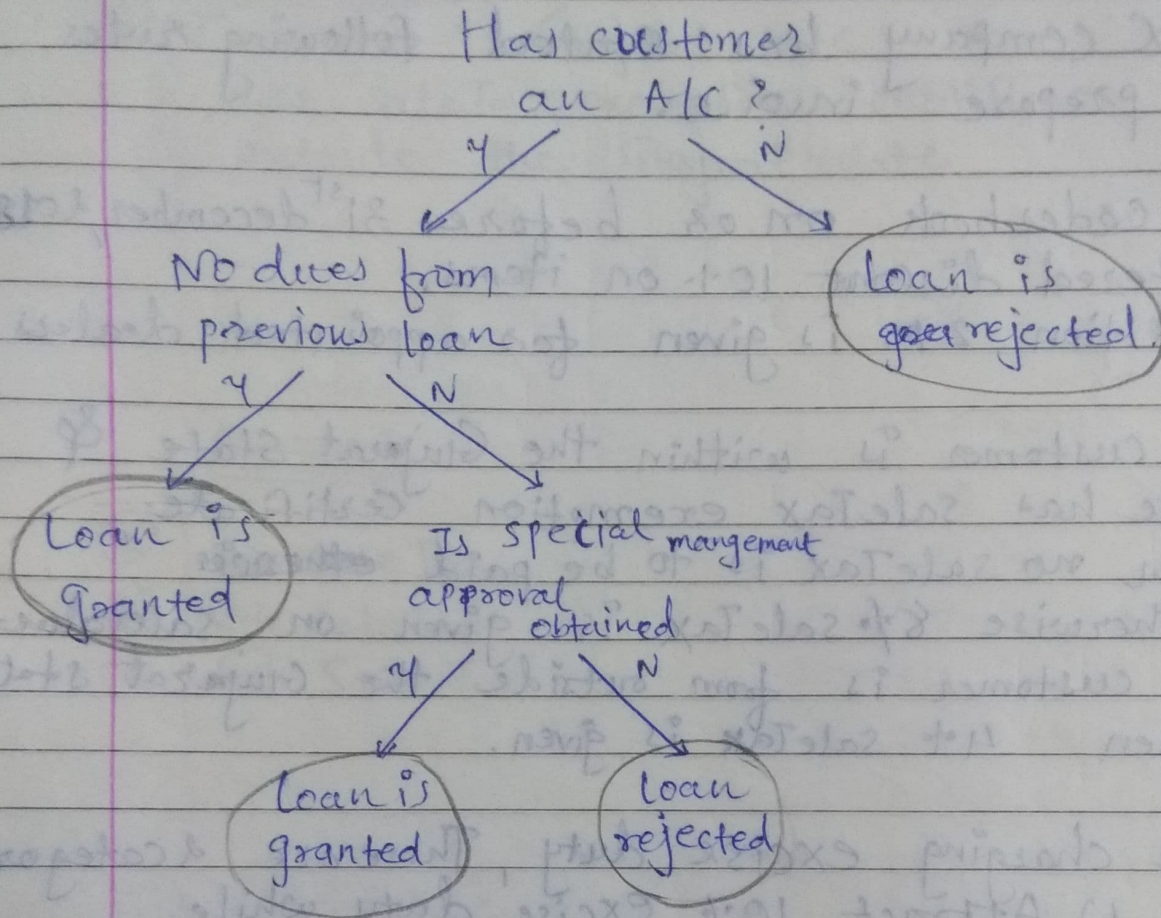
1) XYZ bank will grant a loan under following conditions:

i) If customer have a ~~ee~~ account with the bank & customer has no loan outstanding then loan will be granted.

ii) If customer have account with the bank but some amount is outstanding from previous loan then loan will be granted if special management approval is obtained.

iii) Reject loan application in all other cases.

- Draw decision tree & decision table for given case study.



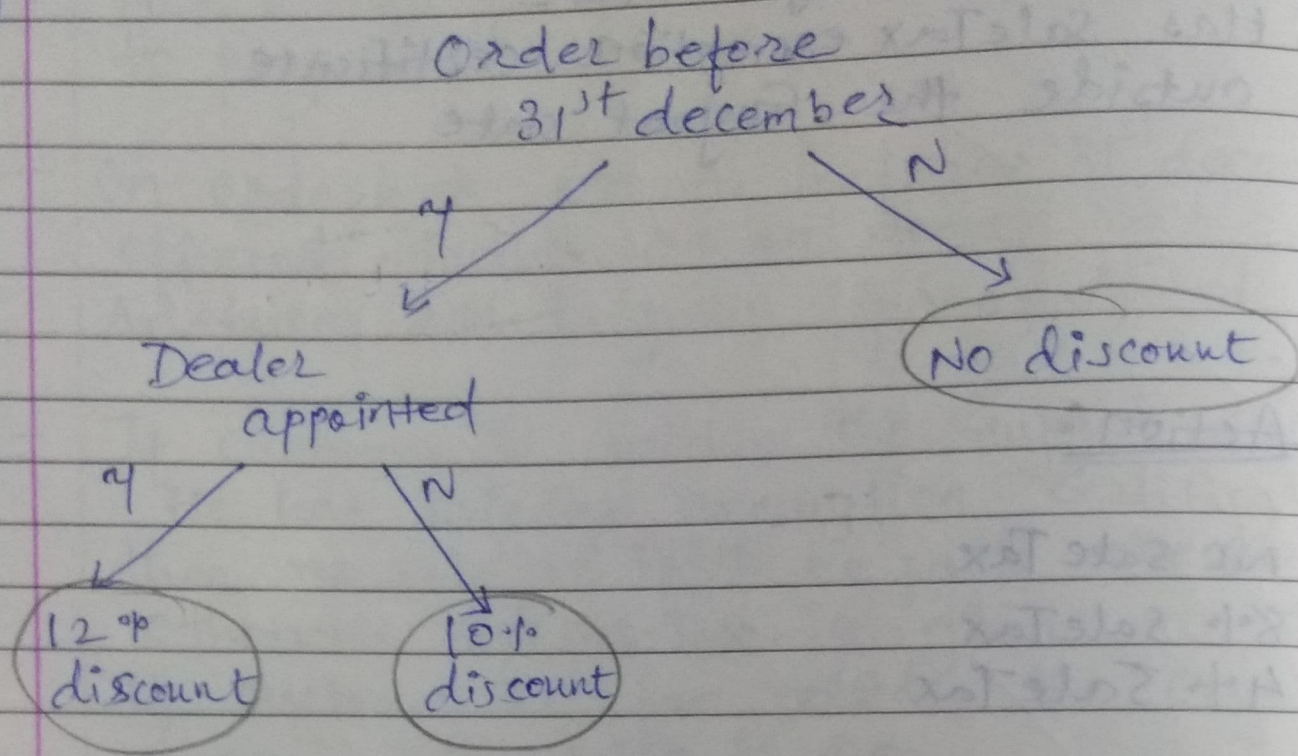
| | R ₁ | R ₂ | R ₃ | R ₄ |
|--|----------------|----------------|----------------|----------------|
| 1) Has customer A/C | Y | Y | Y | N |
| 2) No dues from previous loan? | Y | N | N | - |
| 3) Special management approval obtained? | - | Y | N | - |
| 1) Loan Granted | X | X | - | - |
| 2) Loan Rejected | - | - | X | X |

2) ABC company has stated following rules to prepare invoice.

- On order book on or before 31st december, 2018, offered discount 10% on items. Addition 2% is given for appointed dealers.
- If customer is within the Gujarat State & He has sale tax exemption certificate then no sale tax is to be paid otherwise 8% sale tax is given on sales value. If customer is from outside the Gujarat state then 4% sale tax is given.
- For charging excise duty, There are 2 categories:
 - 1) Attract 10% excise duty while
 - 2) Exempted for excise duty.
- Draw Independent decision table respectively for discount, sale tax & Excise duty.

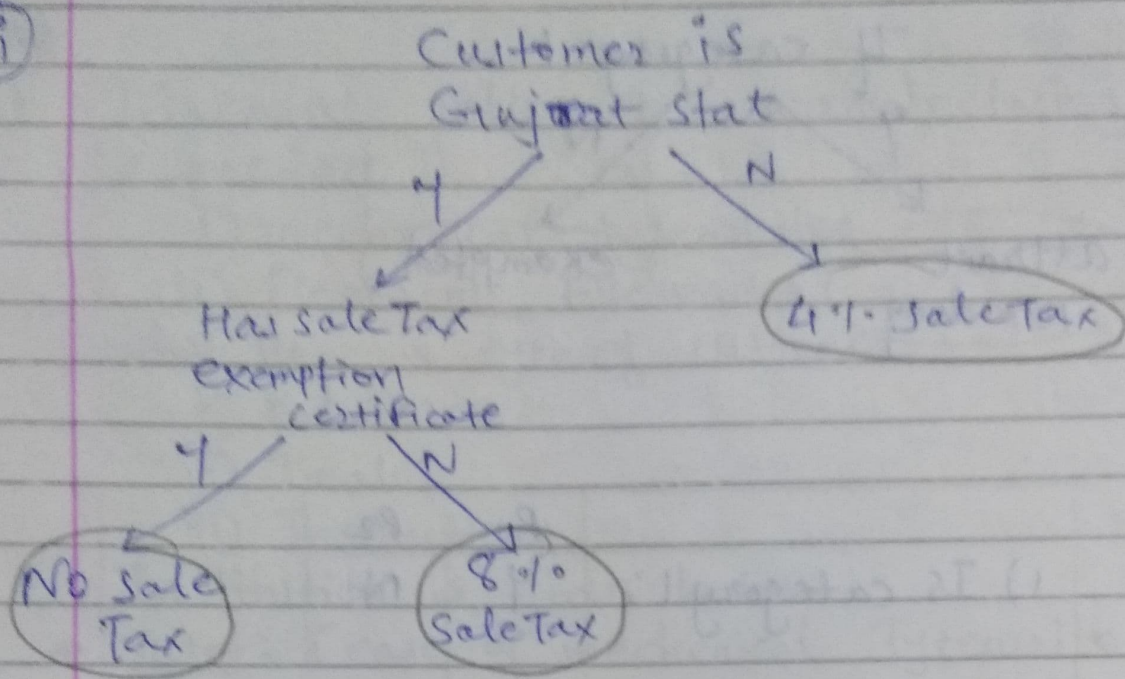
Tree:

i)



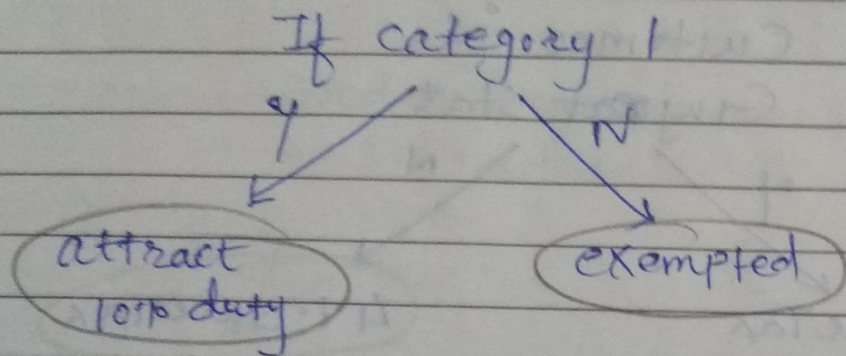
| | R ₁ | R ₂ | R ₃ |
|----------------------------------|----------------|----------------|----------------|
| 1) Order before 31 st | Y | Y | N |
| 2) Dealer appointed | Y | N | - |
| | - | - | - |
| 1) 12% discount | X | - | - |
| 2) 10% discount | - | X | - |
| 3) No discount | - | - | X |

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| | P ₁ | P ₂ | P ₃ |
|---------------------------------------|----------------|----------------|----------------|
| 1) Customer is Gujarat state | Y | Y | N |
| 2) Has Sale Tax exemption Certificate | Y | N | - |
| | - | - | - |
| | | | |
| 1) No Sale Tax | X | - | - |
| 2) 8% Sale Tax | - | X | - |
| 3) 4% Sale Tax | - | - | X |

iii)



| | R ₁ | R ₂ |
|--------------------|----------------|----------------|
| 1) Is category 1: | Y | N |
| 1) 10% excise duty | X | — |
| 2) No excise duty | — | X |

3) Discount policy for manufacturing for using 2 product

- i) mechanical typewriter
 - ii) Electronic typewriter.
- who has 3 type of customer

- i) Retailer
- ii) Dealer
- iii) Institutions

Institution is given below.

* rules: [Case of mechanical Typewriter]

- a) If order is from dealer retailer for amount up to 5000/- then 6% discount is allow.
- b) If order is from dealer for amount up to 5000/- then 7.5% discount is given.
- c) On retail order ~~are~~ exceeding 5000/- then 7.5% discount is given.
- d) If order is from dealer for amount exceeding 5000/- then 11% discount is given.
- e) In all of the cases a flat discount of 7.5% is given to the institution.
- f) In the case of Electronic Typewriter 8% discount is given regardless of amount or customer.

- Draw decision table for above case study.

Condition :

| | R ₁ | R ₂ | R ₃ | R ₄ | R ₅ | R ₆ |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1) Type writer : Mechanical? | Y | Y | Y | Y | Y | N |
| 2) Customer : Retailer? | Y | N | Y | N | N | - |
| 3) Customer : Dealer? | N | Y | N | Y | N | - |
| 4) Customer : Institution? | N | N | N | N | Y | - |
| 5) amount \leq 5000 | Y | Y | N | N | 1 | - |

Action :

| | | | | | | |
|------------------|---|---|---|---|---|---|
| 1) 6% discount | X | - | - | - | - | X |
| 2) 7.5% discount | - | X | X | - | X | - |
| 3) 11% discount | - | - | - | X | - | - |